July 12, 1973
Preliminary Copy
University of Idaho
Soil Conservation Service

Pedee Silt Loam 72 Ida 0524

General Site Characteristics

Location--Benewah County, Idaho, 100 yards north northeast of 0525 in the southwest corner of the northwest 1/4 of Section 16, T. 44 N., R. 4 W; described--November 6, 1972, by Jack Chugg; topography--dissected terrace, convex, 2 percent slope; elevation--2880 feet; parent material--thin loess over mudflow; drainage--moderately well; erosion--slight; permeability--slow; stoniness--many cobbles and few stones; vegetation or use--Ponderosa pine/Grass habitat type, in plowed field; classification--Ultic Paleudalfs, fine, mixed, mesic.

Pedon Description

A1p 0-8 inches. Gray brown (10YR 4.8/2.4) silt loam, very dark gray brown (10YR 3/2.3) moist; moderate medium subangular blocky structure; hard, friable, slightly sticky, slightly plastic; non-calcareous; abrupt wavy boundary.

A12 8-14 inches. Dark brown (10YR 4/3) silt loam, very dark gray brown (10YR 2.7/2.8) moist; moderate medium subangular blocky structure; hard firm, slightly sticky, slightly plastic; non-calcareous; clear wavy boundary.

B2t 14-17 inches. Yellowish brown (10YR 5/4) gravelly silt loam, dark yellowish brown (10YR 3.4/4) moist; weak medium prismatic to moderate medium subangular blocky structure; hard, firm, sticky, plastic; few clay films; non-calcareous; abrupt wavy boundary.

A2 17-19 inches. White (10YR 7.8/2.3) very gravelly silt loam, brown (10YR 5/3) moist; weak fine subangular blocky structure; slightly hard, friable; slightly sticky, slightly plastic; non-calcareous; abrupt wavy boundary.

B21t 19-30 inches. Yellowish brown (7.5YR 5/4.9) very gravelly clay, dark yellowish brown (7.5YR 4/4) moist; moderate coarse columnar and moderate medium angular blocky structure; very hard, firm, very sticky, plastic; thick continuous clay film; non-calcareous; clear wavy boundary.

B22t 30-40 inches. Yellow (10YR 7/6), strong brown (7.5YR 4.6/6) clay films, very gravelly fine sandy loam, reddish yellow (7.5YR 5.6/6) moist, yellowish red (5YR 5/6.3) clay films, moist; massive; extremely hard, firm, sticky, plastic; thick clay bridging; non-calcareous.

Chemical characterization and physical analysis of profile 72 Ida 0524 July 12, 1973

No.	Horizon	Depth in.	pH Paste	pH 1:5	ECx10^3	Saturation extract me/1000 gms soil							
						Ca	Mg	Na	K	CO_3	HCO_3	Cl	SO_4
1	Alp	0-8	5.70		.19								
2	A12	8-14	5.90		.19								
3	B2t	14-17	5.90		.16								
4	A2	17-19	5.70		.16								
5	B21t	19-30	4.95		.18								
6	B22t	30-40	6.70		.24								

Extractable ions me/100 gms					C.E.C.	Base					O.M.	N		Pw at	Soil:Rx
Ca	Mg	Na	K	H	meq/100	Sat.%	Gyp.	$CaCO_3$	E.S.P.	C	%	%	C:N	sat.	Ratio
4.17	1.73	.20	.53	8.26	16.40	43.5			1.4	1.137	1.96	.132	8.6	43.0	.883
4.23	2.30	.14	.59	8.01	17.85	47.5			0.9	1.184	2.04	.120	9.9	46.0	.895
2.09	1.63	.10	.28	1.65	9.06	71.3			1.7	.353	.61	.054	6.5	39.0	.676
.36	.31	.02	.04	.48	1.73	60.8			1.6	.048	.08	.007	6.8	33.0	.198
2.63	3.76	.20	.29	3.71	14.82	65.0			1.9	.157	.27	.012	13.1	45.0	.493
1.28	1.57	.11	.09	.51	5.46	85.6			3.1	.049	.08	.003	16.3	38.0	.226

REMARKS: C.E.C. was done by leaching soil with 10% NaCl, pH 2.3 before distilling. Rock accounted for in calculating Ca, Mg, Na, K, H, C.E.C., O.M., N, and C.

REFERENCE FOR DATA: Dr. Maynard A. Fosberg
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ANALYSIS BY: Andrew L. Bristol

Profile: 72 Ida 0524

Date: June 21, 1973

	Particle size distribution (mm) (percent)								Gravel &	
No.	VCS	CS	MS	FS	VFS	TS	TSi	TC	Stone, etc.	Texture
	2-1.0	1-0.5	0.5-0.25	0.25-0.05	0.1-0.05		0.05-0.002	<0.002	>2mm	Class
0-8	1.88	2.45	1.99	5.39	7.65	19.37	60.40	20.23	11.70	silt loam
8-14	1.70	2.05	1.55	4.18	7.58	17.06	61.03	21.90	10.50	silt loam
14-17	3.25	3.72	2.59	6.85	7.98	24.39	62.42	13.19	32.40	gravelly silt loam
17-19	3.15	4.97	4.08	10.16	12.18	34.54	57.73	7.73	80.20	very gravelly silt loam
19-30	.61	1.82	2.72	11.23	13.00	29.38	25.81	44.81	50.70	very gravelly clay
30-40	5.17	8.38	7.33	16.04	17.46	54.38	29.90	15.72	77.40	very gravelly fine sandy loam

REMARKS: Calgon Added
Centrifuge Method
No Carbonates Present

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